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Applicant: Shlomo Ben-Haim et al.  
Serial No.: 10/001,710  
Filing Date: October 31, 2001  
For: ELECTRICAL MUSCLE CONTROLLER  
Enclosures: (1) First Supplemental Information Disclosure Statement (2 pages) w/IDS Citation (4 pages) & cited references; (2) Fee check in the amount of \$180.00; (3) Acknowledgement Postcard.

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Attorney Docket No.: 501049.20506 (20066.86) *3762 A*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: **Shlomo Ben-Haim et al.** : Art Unit: **3762**

Serial No.: **10/001,710** : Examiner: **C.H. Layno** *12 / I.D.S.*

Filing Date: **October 31, 2001** : Confirmation No.: **3830** *3-3*

For: **ELECTRICAL MUSCLE CONTROLLER**

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**FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

SIR:

The enclosed Supplemental Information Disclosure Statement ("IDS") is submitted in accordance with 37 C.F.R. §§ 197 and 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

In accordance with 37 C.F.R. § 1.98 forms PTO-1449 are attached hereto. Copies of the documents cited are enclosed.

02/27/2004 JBALINAH 00000032 10001710

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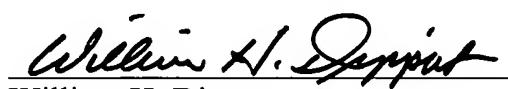
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The filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in § 1.56(b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicants reserve the right to prove that the date of publication is in fact different.

A check in the amount of \$180.00 as the fee under 37 C.F.R. §§ 1.97(c)(2) and 1.17(p) is also enclosed.

Respectfully submitted

February 19, 2004

  
\_\_\_\_\_  
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PTO/SB/08A (04-03)

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**Substitute for form 1449/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 4

**Complete if Known**

Application Number	10/001,710
Filing Date	October 31, 2001
First Named Inventor	Shlomo Ben-Haim
Art Unit	3762
Examiner Name	C.H. Layno
Attorney Docket Number	501049.20506 (20066.86)

**U. S. PATENT DOCUMENTS**

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## **FOREIGN PATENT DOCUMENTS**

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				Application Number	10/001,710
				Filing Date	October 31, 2001
				First Named Inventor	Shlomo Ben-Haim
				Art Unit	3762
				Examiner Name	C.H. Layno
Sheet	2	of	4	Attorney Docket Number	501049.20506 (20066.86)

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	✓	R, RANJAN & N.V. THAKOR (1995) Annals of Biomedical Engineering 23: pps 812-821 "Electrical Stimulation Of Cariac Myocytes"			T <sup>2</sup>
		N. NANNINI & K. HORCH (1991) IEEE Transactions on Biomedical Engineering 38: pps 769-776: "Muscle Recruitment With Intrafascicular Electrodes"			
		D.M. BERS (1991) "Excitation Contraction Coupling And Cardiac Contractile Force"; Chapter 2, pg 17, Kluwer Academic			
	✓	S.B. KNISLEY et al. (19912) Circulation Research 70: pgs 707-715 "Effect Of Field Stimulation On Cellular Repolarization In Rabbit Myocardium"			
	✓	S.M. DILLION (1991) Circulation Research 69: pps 842-856; "Optial Recordings In The Rabbit Heart Show That Defibrillation Strength Shocks Prolong The Duration Of ..."			MAR 8 2 2004 TECHNOLOGY CENTER R3760
	✓	J. FLEISCHHAUER et al. (1995) Circulation 92: pps 587-594; "Electrical Resistances Of Interstitial And Microvascular Space As Determinants Of The Extracellular Electrical..."			
	✓	A. TANIGUCHI et al.; Am. J. Physiol. pg 267: H694-H705; "Inhomogeneity Of Cellular Activation Time And Vmax In Normal Myocardial Tissue Under Electrical Field..."			
	✓	R. LUBART et al. (1992) J. Photochemical Photobiology B 14; pps 337-341 "Effect Of Light On Calcium Transport In Bull Sperm Cells"			
	✓	V.A. LOGINOV (1992) Aviakosm Ekolog Med 26: pgs 49-51; "Accumulation Of Calcium Ions In Myocardial Sarcoplasmic Reticulum Of Restrained Rats Exposed To The ..."			
	✓	J.L. SCHWARTZ et al. (1990) Bioelectromagnetics 11: pps 349-358; "Exposure Of Frog Hearts To CW Or Amplitude-Modified VHF Fields: Selective Efflux Of Calcium Ions..."			

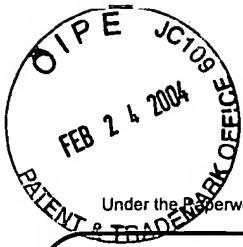
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				Application Number	10/001,710
				Filing Date	October 31, 2001
				First Named Inventor	Shlomo Ben-Haim
				Art Unit	3762
				Examiner Name	C.H. Layno
Sheet	3	of	4	Attorney Docket Number	501049.20506 (20066.86)

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/	E. LINDSTROM et al. (1995) Bioelectromagnetics 16: pps 41-47: "intracellular Calcium Oscillations In A T-Cell Line After Exposure To Extremely-Low-Frequency Magnetic..."				T <sup>2</sup>
✓	V.A. LOGINOV et al. (1991) Kosm Biol Aviakosm Med 15; pps 51-53; "Effects Of An Impulse Electromagnetic Field On Calcium Ion Accumulation In The Sarcoplasmic..."				
/	L.A. COULTON & A.T. BARKER (1993) Phys. Med. Biol. 38; pps 347-360; "Magnetic Fields And Intracellular Calcium; Effects On Lymphocytes Exposed To Conditions For..."				
/	A. PUMIR et al. (1994) Proc. R. Soc. Lond. B. Biol. Sci. 257; pps 129-134; "Control of Rotating Waves In Cardiac Muscle: Analysis Of The Effect Of Electric Fields"				
/	M. SBLOMONOW et al. (1983) Am. J. Physical Medicine 62: pps 71-82; "Control Of Muscle Contractile Force Through Indirect High-Frequency Stimulation"				
/	J.D. BRONZINO (1995) "Biomedical Engineering Handbook", Chapter 82.5; pg 1288, "IEEE press/CRC press"				
/	J.R. WINDLE et al. (1986) Am. J. Cardiol. 57: pps 381-386; "Subthreshold Conditioning Stimuli Prolong Human Ventricular Refractoriness"				MAR 02 2004 TECHNOLOGY CENTER R3700
✓	M. FROMER & M. SHENASA (1992) J. Am. Coll. Cardio. 20; pps 879-883; "Ultrarapid Subthreshold Stimulation For Termination Of Atriventricular Node Reentrant Tachycardia"				
/	B. SKALE et al. (1985) J. Am. Coll. Cardiol. 6: pps 133-140; "Inhibition Of Premature Ventricular Extrastimuli By Subthreshold Conditioning Stimuli"				
/	M. YOKOYAMA (1976) Japanese HEart Journal 17; pps 315-325; "The Phase Of Supernormal Excitation In Relation To The Strength Of Subthreshold Stimuli"				

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	10/001,710
				Filing Date	October 31, 2001
				First Named Inventor	Shlomo Ben-Haim
				Art Unit	3762
				Examiner Name	C.H. Layno
Sheet	4	of	4	Attorney Docket Number	
501049.20506 (20066.86)					

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